

Report No.: 1

Test Time: 31.10.2019 19:51

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 595 4x24LED 0,48A 26,5W 3000K bez stekla

Luminous Length (mm): 595

Luminous Width (mm): 595

Luminous Height (mm): 35

Voltage: 221.3 V

Current: 0.117 A

Power: 25.56 W

Power Factor: 0.983

Photometric Results

CIE Class: Direct

Measurement Flux: 3487.4 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 3487.4 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 158.3, 157.9, 158.0, 157.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 116.9, 117.1, 117.1, 117.0

Luminaire Efficacy Rating (LER): 136.49

Central Intensity: 1179.38 cd

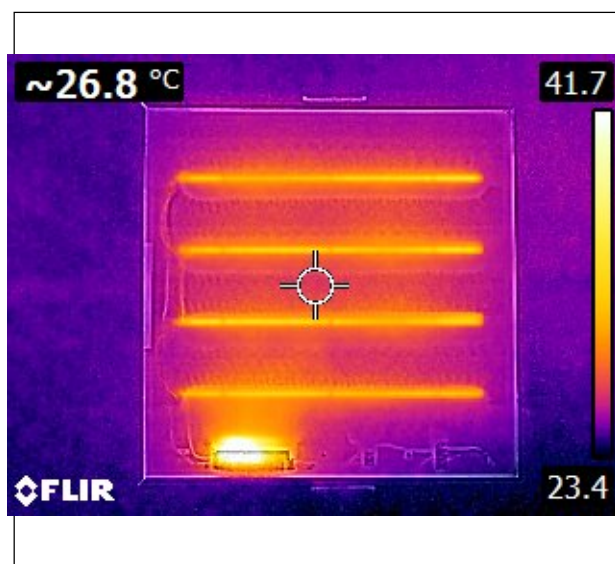
Max. Intensity: 1181.6 cd

Pos of Max. Intensity: H67.5 V4

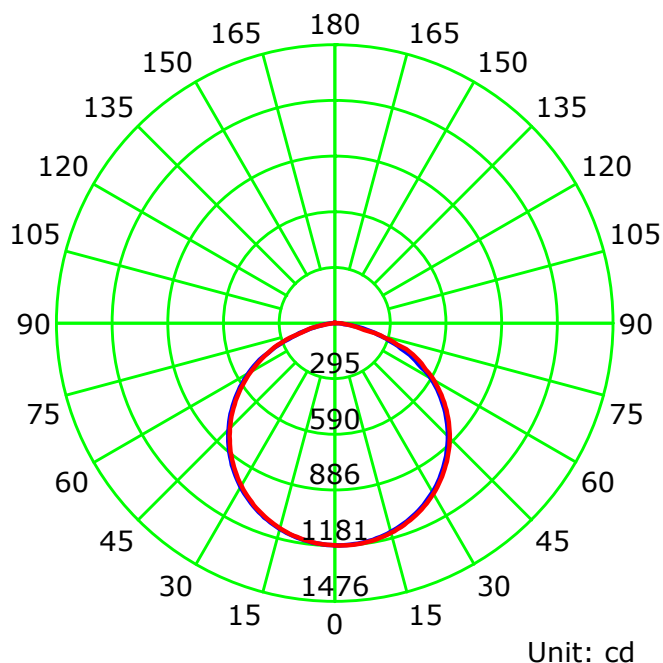
S/MH(C0/C180): 1.28

S/MH(C90/C270): 1.29

Termogramma



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

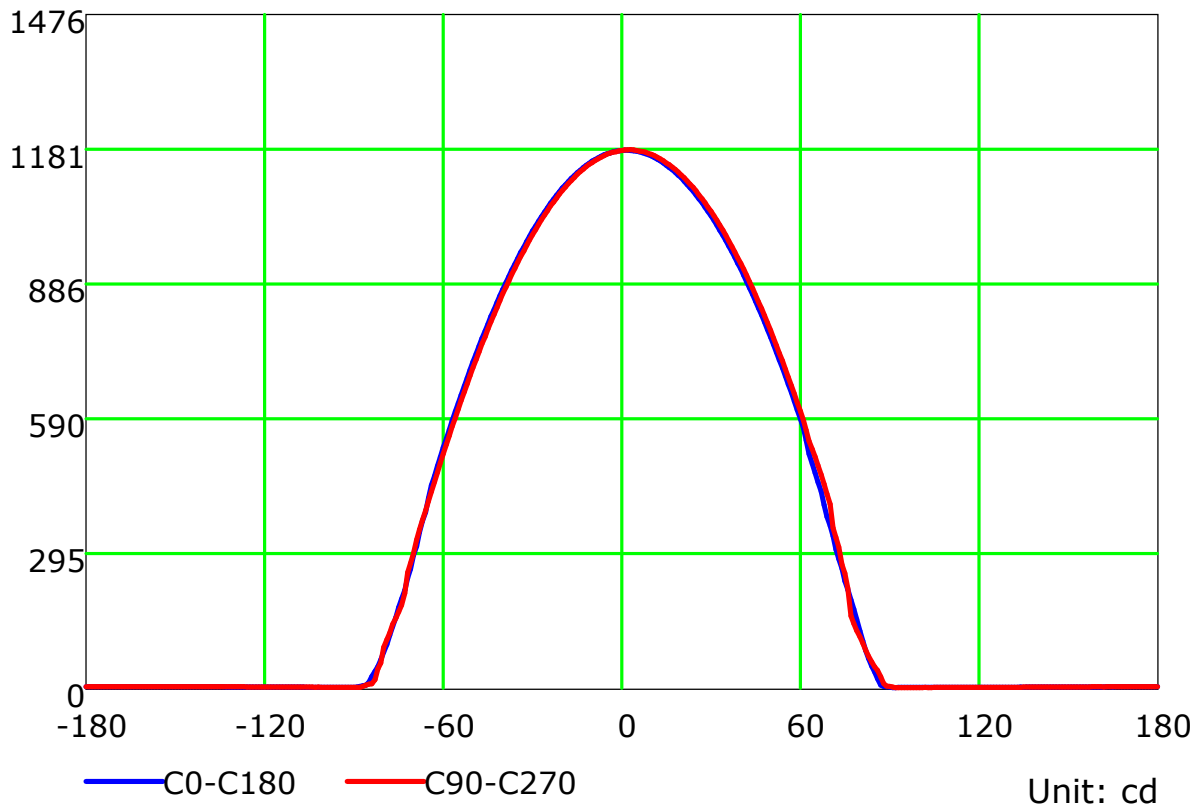
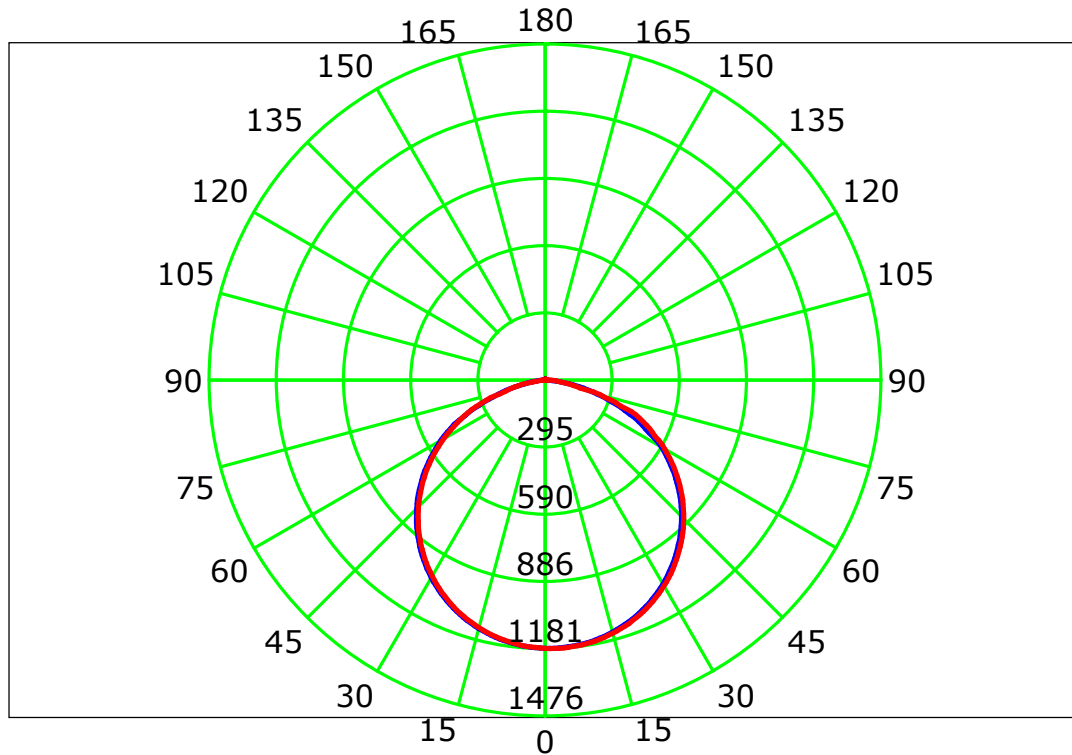
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

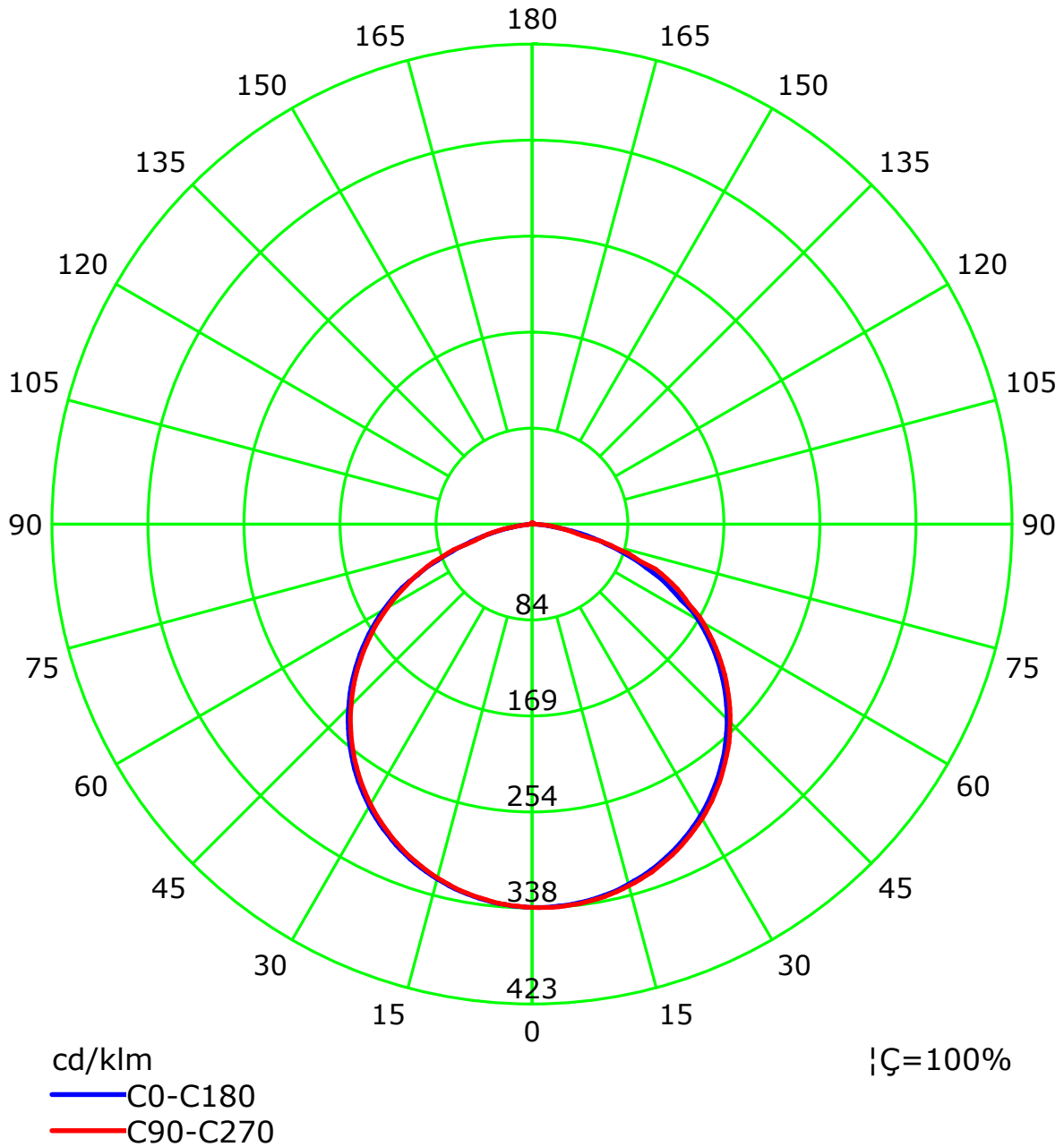
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: LSG-1800B
Distance: 12.677 m
Humidity:
Inspector:

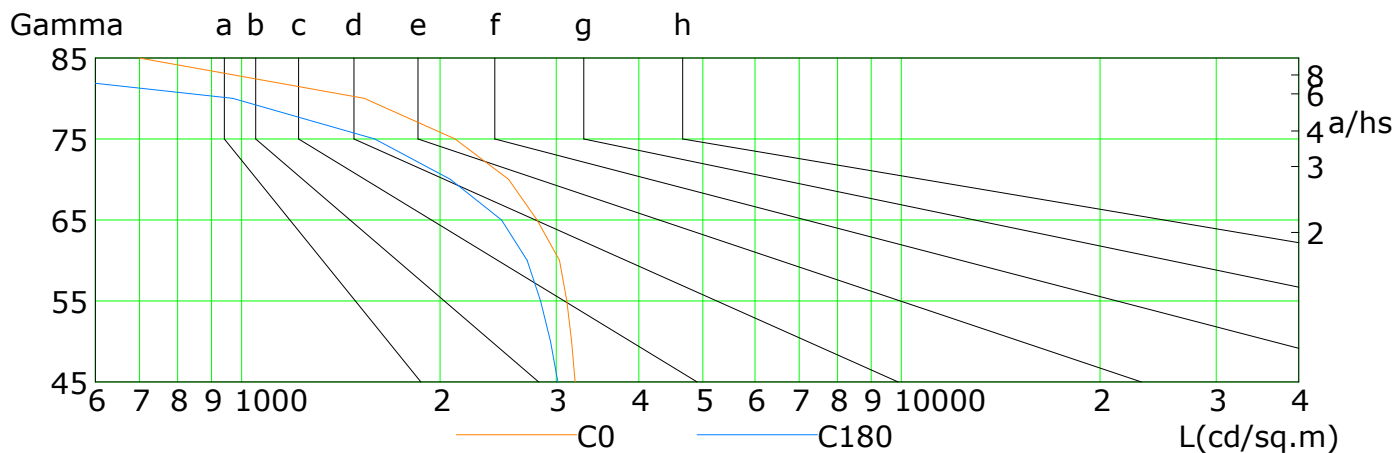
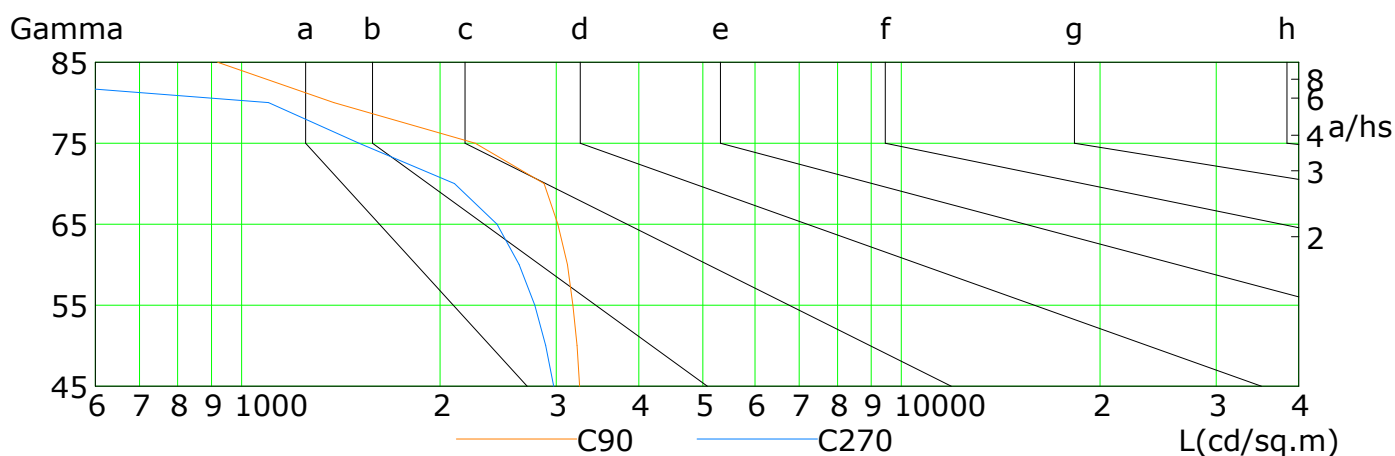
Luminous Intensity Distribution Curve(cd/klm)



Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300

a b c d e f g h

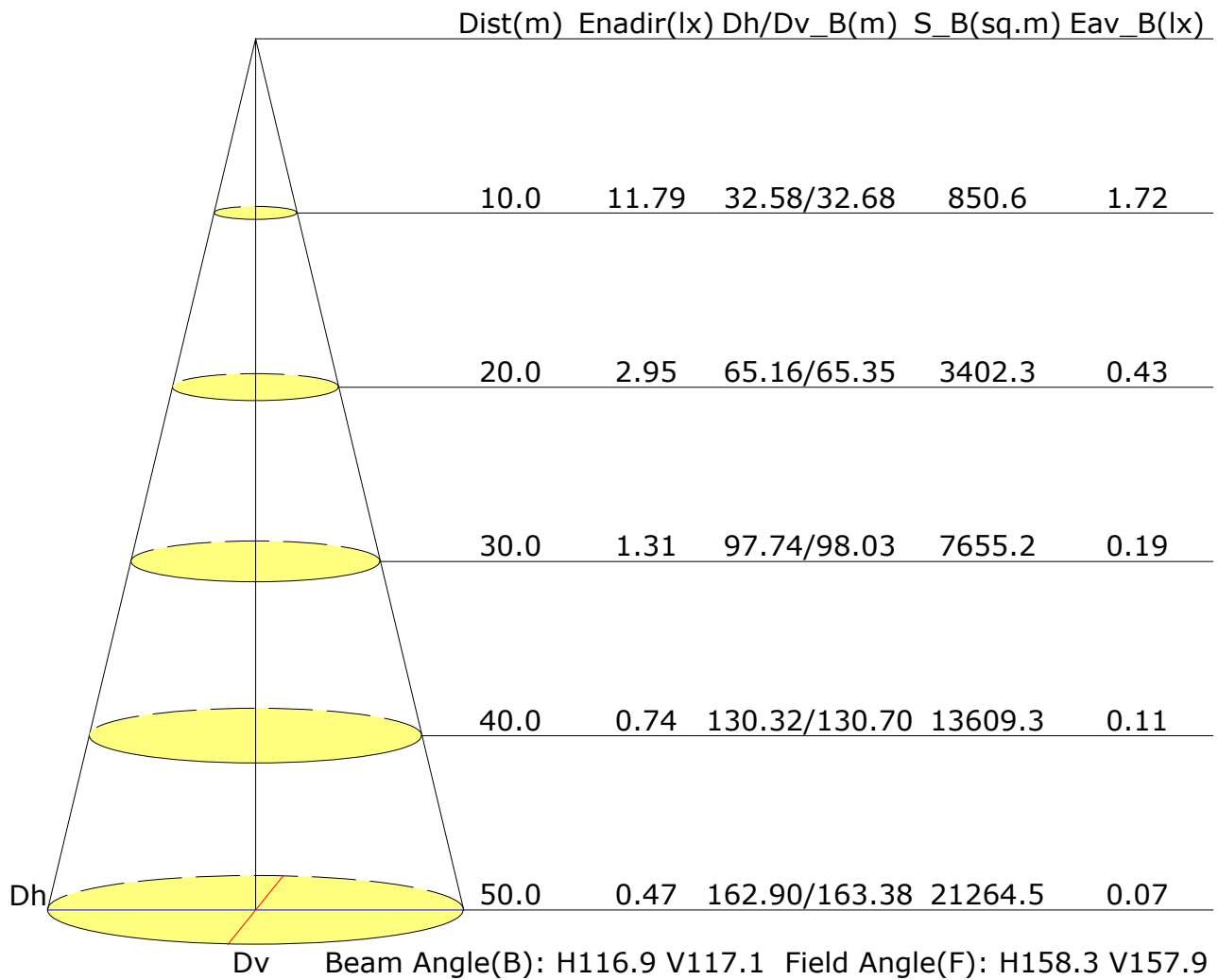


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	3203	3163	3112	3032	2805	2538	2107	1535	700
C90	3253	3224	3180	3119	3014	2873	2259	1379	920
C180	3015	2939	2839	2708	2478	2072	1591	969	269
C270	2973	2889	2781	2634	2438	2101	1507	1099	181

C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: LSG-1800B
 Distance: 12.677 m
 Humidity:
 Inspector:

Illuminance at a Distance



UGR Table

Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	16.7	18.1	17.0	18.3	18.6	16.6	17.9	16.9	18.2	18.4
3H	18.2	19.5	18.5	19.7	20.0	18.1	19.4	18.4	19.6	19.9
4H	18.7	19.9	19.1	20.2	20.5	18.6	19.7	18.9	20.0	20.4
6H	19.0	20.1	19.4	20.5	20.8	18.7	19.9	19.1	20.2	20.5
8H	19.1	20.2	19.5	20.5	20.8	18.8	19.8	19.1	20.2	20.5
12H	19.1	20.1	19.5	20.4	20.8	18.8	19.8	19.2	20.1	20.5
X=4H Y=2H	17.4	18.6	17.7	18.9	19.2	17.3	18.4	17.6	18.7	19.1
3H	19.0	20.1	19.4	20.4	20.7	19.0	20.0	19.4	20.3	20.7
4H	19.7	20.6	20.1	20.9	21.3	19.5	20.4	19.9	20.8	21.2
6H	20.1	20.9	20.5	21.3	21.7	19.8	20.6	20.2	21.0	21.4
8H	20.1	20.9	20.6	21.3	21.7	19.8	20.6	20.3	21.0	21.4
12H	20.2	20.8	20.6	21.3	21.7	19.8	20.5	20.3	20.9	21.4
X=8H Y=4H	19.9	20.6	20.3	21.0	21.5	19.8	20.5	20.2	20.9	21.4
6H	20.4	21.0	20.9	21.4	21.9	20.1	20.7	20.6	21.1	21.6
8H	20.5	21.1	21.0	21.5	22.0	20.2	20.7	20.7	21.2	21.7
12H	20.6	21.0	21.1	21.5	22.0	20.2	20.7	20.7	21.2	21.7
X=12H Y=4H	19.9	20.6	20.3	21.0	21.4	19.8	20.4	20.2	20.9	21.3
6H	20.4	20.9	20.9	21.4	21.9	20.1	20.7	20.6	21.1	21.6
8H	20.6	21.0	21.1	21.5	22.0	20.2	20.7	20.7	21.2	21.7
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.1					+0.2/-0.2				
S=1.5H	+0.3/-0.4					+0.5/-0.7				
S=2.0H	+0.6/-0.8					+0.5/-1.1				

Calculate in accordance with CIE Pub.117. The table is revised with 3487lm ($8\log(F/F_0) = 4.3$).

C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: LSG-1800B
 Distance: 12.677 m
 Humidity:
 Inspector:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.25									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.56	0.66	0.74	0.80	0.87	0.92	0.96	1.00	1.03	
	0.30		0.48	0.59	0.67	0.72	0.81	0.87	0.91	0.96	1.00	
	0.20		0.42	0.53	0.61	0.67	0.76	0.82	0.87	0.93	0.97	
0.50	0.50	0.20	0.54	0.64	0.72	0.77	0.84	0.89	0.92	0.96	0.99	
	0.30		0.47	0.58	0.65	0.71	0.79	0.84	0.88	0.93	0.96	
	0.20		0.42	0.52	0.60	0.66	0.74	0.80	0.84	0.90	0.94	
0.30	0.50	0.20	0.53	0.62	0.69	0.74	0.81	0.85	0.89	0.93	0.95	
	0.30		0.46	0.56	0.64	0.69	0.76	0.82	0.85	0.90	0.93	
	0.20		0.42	0.52	0.59	0.65	0.73	0.78	0.82	0.87	0.91	
0.00	0.00	0.00	0.39	0.49	0.56	0.62	0.69	0.74	0.78	0.83	0.86	
Rating:26W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 1.25									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	1.01	0.83	0.70	0.61	0.48	0.40	0.34	0.26	0.21	
	0.30		0.84	0.71	0.61	0.54	0.44	0.37	0.32	0.25	0.20	
	0.20		0.72	0.62	0.54	0.48	0.40	0.34	0.29	0.23	0.19	
0.50	0.50	0.20	0.97	0.80	0.67	0.58	0.46	0.41	0.32	0.25	0.20	
	0.30		0.82	0.69	0.60	0.52	0.42	0.35	0.30	0.24	0.19	
	0.20		0.71	0.61	0.53	0.47	0.39	0.33	0.29	0.22	0.19	
0.30	0.50	0.20	0.94	0.76	0.65	0.56	0.44	0.36	0.31	0.24	0.19	
	0.30		0.80	0.67	0.58	0.51	0.41	0.34	0.29	0.23	0.19	
	0.20		0.70	0.60	0.52	0.46	0.38	0.32	0.28	0.22	0.18	
0.00	0.00	0.00	0.60	0.50	0.43	0.38	0.30	0.25	0.22	0.17	0.14	
Rating:26W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 1.25									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.22	0.22	
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.05	0.07	0.08	0.10	0.12	0.13	0.14	0.16	0.17	
0.50	0.50	0.20	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.21	
	0.30		0.10	0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.07	0.08	0.09	0.11	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.16	0.17	0.18	0.18	0.19	0.19	0.20	0.20	0.20	
	0.30		0.10	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.18	
	0.20		0.05	0.07	0.08	0.09	0.11	0.13	0.14	0.15	0.16	
0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
Rating:26W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												